FIBERS SITE GROUP

June 10, 2016

Via Email Electronic Copy

Adalberto Bosque, PhD, MBA, REM, CEA Response and Remediation Branch U.S Environmental Protection Agency City View Plaza II - Suite 7000 48 RD, 165 Km. 1.2 Guaynabo, PR 00968-8069

Subject: RD/RA Monthly Report – May 2016

Fibers Public Supply Wells Site

Guayama, Puerto Rico

Dear Mr. Bosque:

On behalf of the Fibers Public Supply Wells Site Settling Defendants, we are submitting the attached RD/RA Monthly Report prepared pursuant to the Consent Decree (Civil Action No. 92-2486) in the matter of *Unites States v. Anaquest Caribe, Inc. et al*, Section IX, Paragraph 30, Reporting Requirements.

Please feel free to contact Mr. James Kirschner of ARCADIS at (602) 797-4519 or me at (724) 544-4874 if you have any questions or comments regarding this submittal.

Sincerely,

Joe Biss, CHMM

Fibers Site Group Project Coordinator

EHS Support LLC

Copies:

Chief, New York/Caribbean Superfund Branch, Attn. Mel Hauptman- via email only

Ms. Evelyn Rivera-Ocasio, Assistant Regional Counsel – Caribbean Programs – via email only

Chief, Environmental Enforcement Division, U.S. Department of Justice (DOJ #90-11-2-768)

State Remedial Project Manager, Puerto Rico Environmental Quality Board

Ms. Katherine Mishkin, Hydrogeologist, USEPA Superfund Technical Support Section – via email only

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Ms. Ana Palou Balsa, PRIDCO - via email only

Mr. Dan Vineyard, Jackson Walker- via email only

James Kirschner, Arcadis - via email only

RD/RA Monthly Report – May 2016 Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

(a) Description of actions which have been taken toward achieving compliance with this Decree.

Fibers Air Stripping System

The Fibers groundwater extraction and treatment system (GWETS) was operational for approximately 79% of the time during May 2016. The GWETS had five automated shut downs due to power outages and was then started at the Site the next business day. In addition, it had three shut downs due to equipment faults and maintenance.

A summary of the daily treatment system operating records is presented in Table 1. The GWETS average flow rates are depicted on Figure 1. The GWETS operated at an average flow rate of 239 gallons per minute (gpm) and treated approximately 11.3 million gallons of water in May 2016. To date (since May 1999), approximately 2.96 billion gallons of water have been treated at the Fibers Site

(b) Summary of all sampling results and tests, and all other data received or generated by Settling Defendants.

Groundwater influent and effluent samples were collected and analyzed in May 2016. A summary of the May 2016 GWETS laboratory analytical results are provided in Table 2. A summary of influent groundwater concentrations of tetrachloroethene (PCE) and total haloethers from the GWETS is depicted on Figures 2 and 3, respectively.

Arcadis U.S. Inc. (Arcadis) performed a data quality assessment (validation) of the laboratory analytical results reported by Pace Analytical Services, Inc. Results are summarized in the Data Review Report included as Attachment 1. A copy of the chain of custody and annotated sample analysis data sheets are provided as an attachment to the Data Review Report. A copy of the complete laboratory analytical report is provided as Attachment 2. A copy of the field notes documenting sample collection information, individual flow rates at the three groundwater extraction wells and treatment system parameters is provided as Attachment 3.

(c) List of all work plans, plans and other deliverables completed and submitted.

None for this reporting period

(d) Description of all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next six weeks.

An Operations, Maintenance, and Monitoring Manual is anticipated to be submitted to the United States Environmental Protection Agency (USEPA) in June 2016.

A Notice of Completion Report, with stamped engineering as-built construction drawings, is anticipated to be submitted to the USEPA in June 2016.

The first semi-annual groundwater monitoring and sampling event of 2016 was completed at the end of May 2016. Upon receipt of completed data packages from the laboratory, analytical data will undergo validation. Once validated, the data will be submitted with the first semi-annual groundwater monitoring and sampling report for 2016.

Environmental Resource Technologies (ERTEC) completed Phase 2 and Phase 3 subsurface soil investigations at the Baxter-Guayama facility on the Fibers Site in October 2015 and February 2016. Upon completion of the data validation, a summary of results from ERTEC's Phase 2 and Phase 3 subsurface investigations will be included in a subsequent monthly report.

(e) Information regarding the percentage completion, unresolved delays encountered or anticipated.

Construction Activities – 100% complete.

System Start-Up – 100% complete.

Start-Up Performance Monitoring – 100% complete.

Long-Term Operation & Maintenance Period – In progress.

(f) List of any modification to work plans or other schedules the Settling Defendants have proposed.

None.

(g) Description of activities undertaken in support of the Community Relations Plan.

No support activities have been requested for the next planning period.

(h) Actions undertaken to address outside parties concerns.

No concerns from outside parties were encountered during this reporting period.



Table 1
Summary of Daily Treatment System Operating Records - May 2016
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Recording Date	Influent Flow (gpm) 1	Effluent Flow (gpm) ²	RW-2 (gpm) ³	RW-4 (gpm) ⁴	RW-5 (gpm) ⁵	pH ⁶	Comments
5/1/2016	305	311	116	140	47	8.0	Comments
5/2/2016	302	298	115	141	48	8.0	
5/3/2016	303	312	114	140	49	8.0	Refilled biocide tank.
5/4/2016	177	185	68	82	28	8.1	Started system after TP-202A fault.
5/5/2016	304	324	115	140	48	8.0	
5/6/2016	305	325	115	141	48	8.0	
5/7/2016	310	319	115	139	49	8.0	
5/8/2016	298	299	114	141	49	8.0	
5/9/2016	290	291	110	134	46	8.0	GWETS maintenance.
5/10/2016	303	340	116	140	47	8.0	
5/11/2016	300	320	115	140	47	8.0	
5/12/2016	87	81	35	41	15	8.2	GWETS maintenance.
5/13/2016	13	15	7	7	3	8.3	GWETS maintenance.
5/14/2016	0	0	0	0	0	8.0	
5/15/2016	0	0	0	0	0	8.0	
5/16/2016	153	159	39	88	30	8.1	Started system after power loss.
5/17/2016	289	290	110	134	45	8.1	GWETS maintenance.
5/18/2016	188	198	73	89	29	8.0	Started system after power loss.
5/19/2016	25	28	12	14	5	7.9	
5/20/2016	166	179	62	80	28	8.0	Started system after power loss.
5/21/2016	301	320	110	145	47	8.1	
5/22/2016	302	317	111	145	47	8.1	
5/23/2016	300	320	111	145	47	8.1	
5/24/2016	275	294	102	133	43	8.1	Started system after power loss.
5/25/2016	275	279	96	134	40	8.0	Started system after power loss.
5/26/2016	301	321	110	146	46	8.1	Refilled biocide tank.
5/27/2016	304	314	113	145	44	8.1	
5/28/2016	305	327	115	146	46	8.1	
5/29/2016	308	327	114	146	46	8.1	
5/30/2016	308	328	115	145	46	8.1	
5/31/2016	310	327	116	145	46	8.1	
Monthly Average	239	250	89	113	37	8.0	

Notes:

Flow rates are 24-hour daily average.

gpm = gallons per minute.

¹ = Recorded from instrument FIT-101.

² = Recorded from instrument FIT-301.

³ = Recorded from instrument RW2 FIT.

⁴ = Recorded from instrument RW4 FIT.

⁵ = Recorded from instrument RW5 FIT.

⁶ = Recorded from instrument pHIT-201A.

Table 2 Summary of Treatment System Laboratory Analytical Results May 2016 Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

Fibers Groundwater Extraction and Treatment System

Laboratory analytical results for water samples collected at the influent and effluent sample tap locations from the Fibers Groundwater Extraction and Treatment System on May 2, 2016 are presented below. The system average effluent flow rate at the time the samples were collected was 312 gallons per minute (gpm). Sample results indicate that the treatment system is operating in compliance with operating parameters pursuant to the Consent Decree.

		VOC (µ	g/L)	
		Sample	e ID	
Compound	EFF-20160502	EFFDUP-20160502	INF-20160502	TB-20160502
Tetrachloroethene	ND	ND	7.1	ND
Enflurane	ND	ND	1.9	ND
Haloether 229	ND	ND	39.1	ND
Haloether 406	ND	ND	1.2	ND
Haloether 508	ND	ND	59.3	ND
Haloether 528	ND	ND	1.6	ND
Halomar	ND	ND	1.3	ND
Isoflurane	ND	ND	145	ND
Total Haloethers	ND	ND	249	ND
Acetone	12.4	15.5	7.5	ND
Other VOC	ND	ND	ND	ND

Notes:

VOC = volatile organic compounds.

μg/L = micrograms per liter.

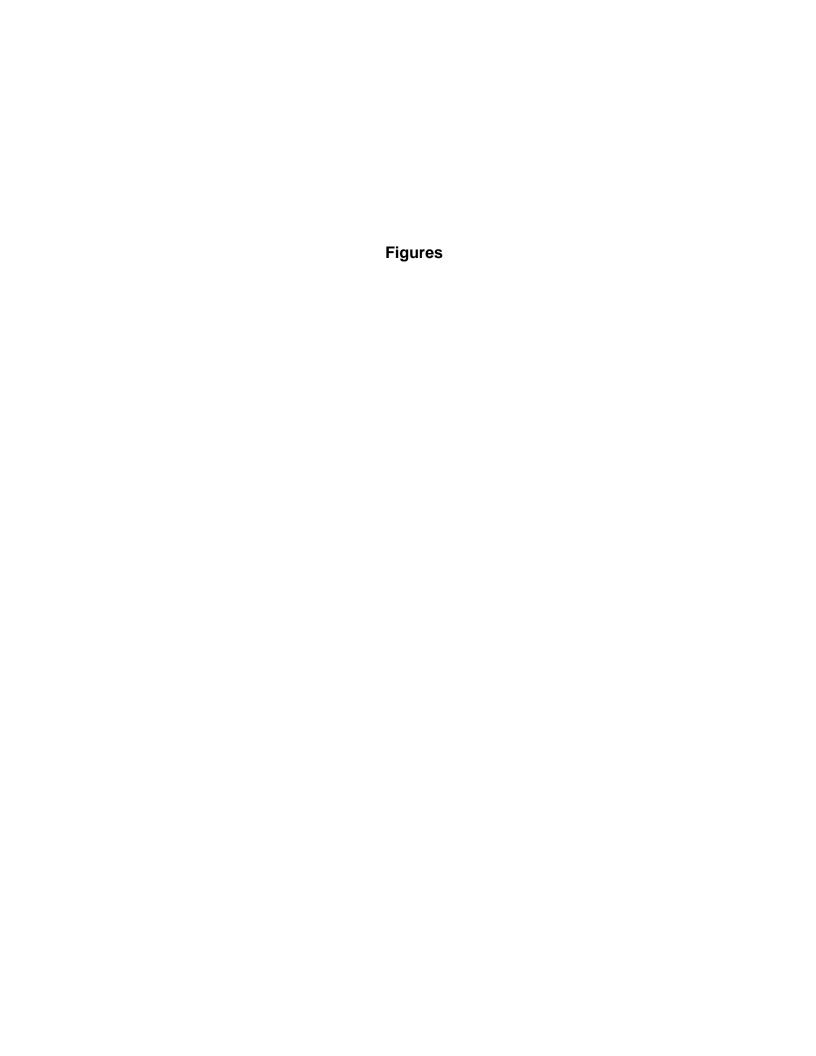
EFF = effluent sample.

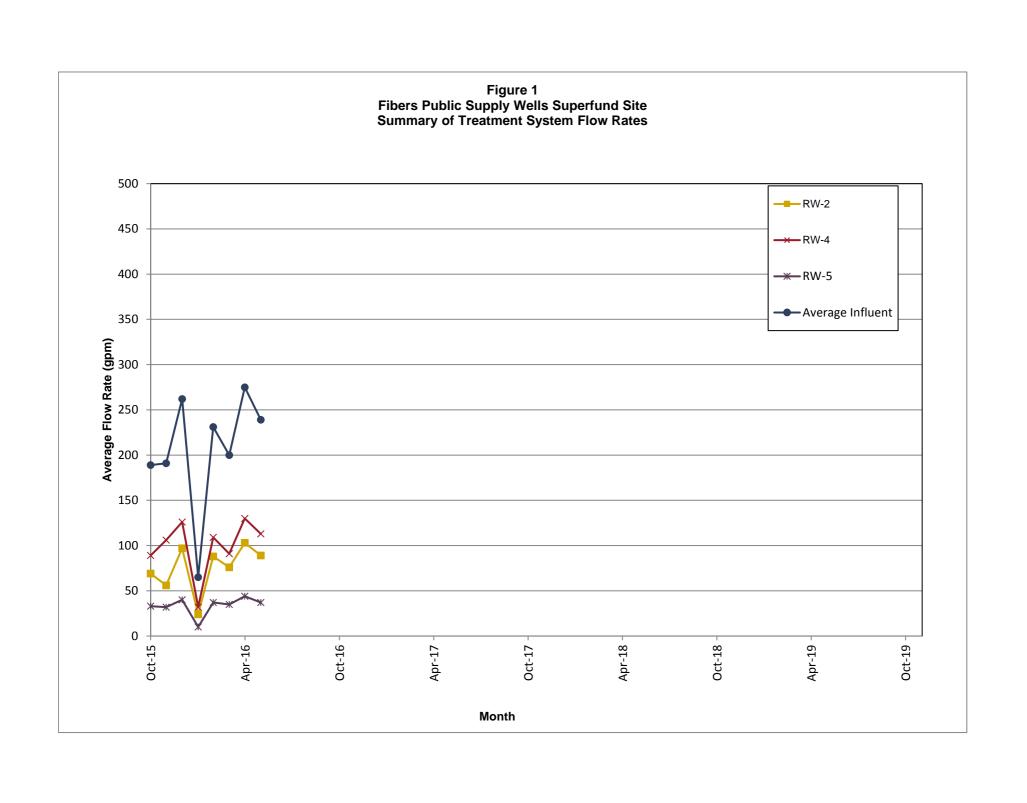
EFFDUP = effluent duplicate sample.

INF = influent sample.

TB = trip blank.

ND = not detected at or above laboratory reporting limit.





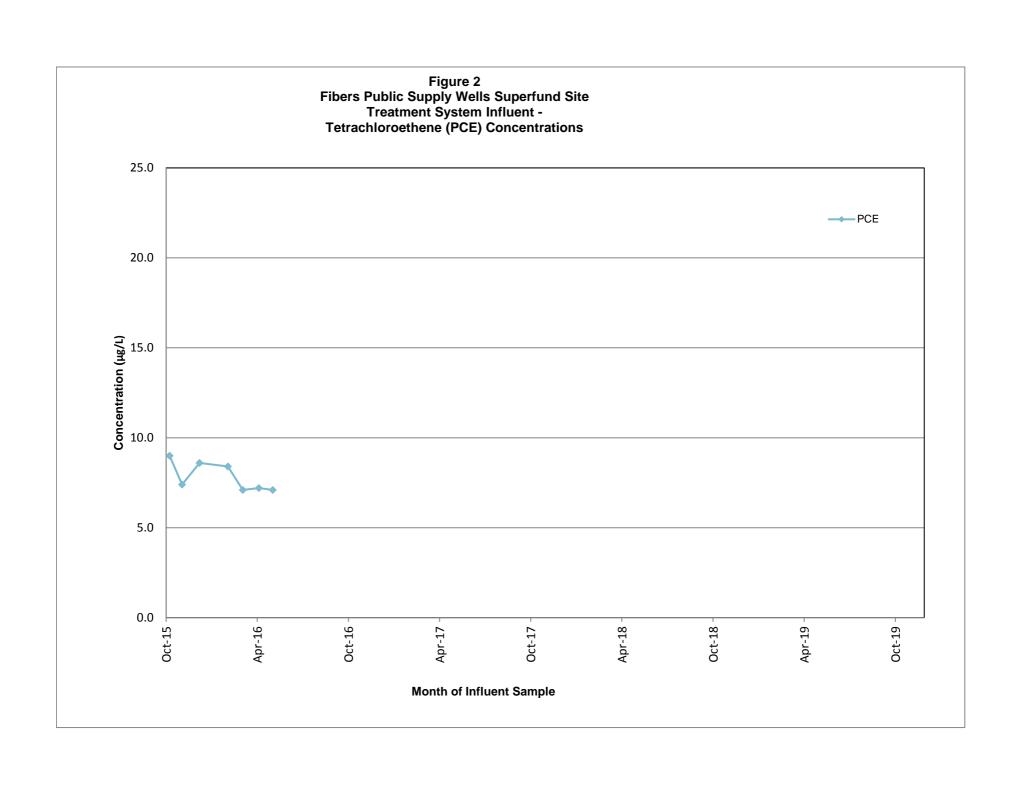
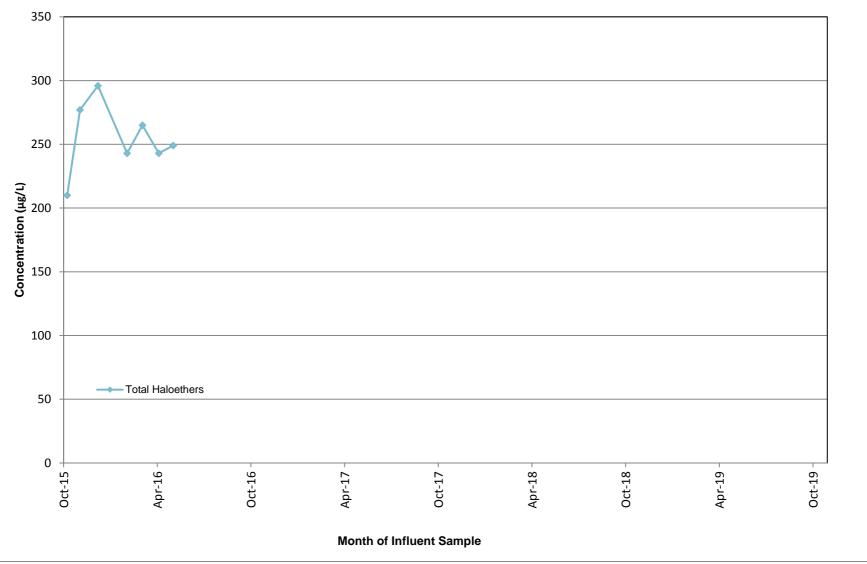


Figure 3
Fibers Public Supply Wells Superfund Site
Treatment System Influent Total Haloethers Concentrations



Attachment 1 Data Review Report



Fibers Group

Data Review

GUAYAMA, PUERTO RICO

Volatiles Analyses

SDG #2036032 Analyses Performed By: Pace Analytical Services, Inc. New Orleans, Louisiana

Report: #25655R Review Level: Tier II

Project: CO001911.0003.1605A

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #2036032 for samples collected in association with the Fibers Group Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

			Sample	Parent	Analysis				
Sample ID	Lab ID	Matrix	Collection Date	Sample	voc	svoc	TPH	MET	MISC
TB-20160502	2036032001	Water	05/02/2016		Χ				
INF-20160502	2036032002	Water	05/02/2016		Х				
EFF-20160502	2036032003	Water	05/02/2016		Х				
EFFDUP-20160502	2036032004	Water	05/02/2016	EFF-20160502	Х				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location EFF-20160502.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. QC serves to increase confidence in data but any value potentially contains error.	Strict

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.
300-040 0200	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within acceptable holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the RL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
	Styrene		
	Acrolein	<10%	<10%
	m&p-Xylene		
EFF-20160502	o-Xylene	<ll but="">10%</ll>	<10%
	cis-1,3-Dichloropropene		
	Toluene	AC	<ll but="">10%</ll>
	Vinyl chloride		

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
the upper central limit (III.)	Non-detect	No Action
> the upper control limit (UL)	Detect	J
the lower central limit (LL) but > 100/	Non-detect	UJ
< the lower control limit (LL) but > 10%	Detect	J
< 10%	Non-detect	R
< 10%	Detect	J
Parent sample concentration > four times the MS/MSD	Detect	No Action
spiking solution concentration.	Non-detect	INO ACTION

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compound
	1,1-Dichloroethene
	Carbon disulfide
	cis-1,3-Dichloropropene
EFF-20160502	Ethylbenzene
	o-Xylene
	Toluene
	Vinyl chloride

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
> OL	Detect	J

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
EFF-20160502 / EFFDUP-20160502	Acetone	12.4	15.6	AC

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Repo	orted		mance ptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETR	Y (GC/MS))			
Tier II Validation					
Holding times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks					
A. Method blanks		Х		Х	
B. Equipment/Field blanks					Х
C. Trip blanks		Х		Х	
Laboratory Control Sample (LCS) Accuracy (%R)		Х		Х	
Laboratory Control Sample Duplicate (LCSD) %R					Х
LCS/LCSD Precision (RPD)					Х
Matrix Spike (MS) %R		Х	Х		
Matrix Spike Duplicate (MSD) %R		Х	Х		
MS/MSD Precision RPD		Х	Х		
Field/Laboratory Duplicate Sample RPD		Х		Х	
Surrogate Spike %R		Х		Х	
Dilution Factor		Х		Х	
Moisture Content					Х

%R Percent recovery
RPD Relative percent difference
%RSD Relative standard deviation
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:

DATE: May 30, 2016

PEER REVIEW: Jeffrey L. Davin

DATE: May 31, 2016

CHAIN OF CUSTODY/ ANNOTATED SAMPLE ANALYSIS DATA SHEETS



Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Sample: TB-20160502	Lab ID: 20	36032001	Collected:	05/02/1	16 00:00	Received:	05/03/16 08:40	Matrix: Water	
Parameters	Results	Units	Repor	t Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical Me	thod: EPA 5	030B/8260						
Acetone	ND	ug/L		4.0	1		05/04/16 14:0	1 67-64-1	
Acrolein	ND	ug/L		8.0	1		05/04/16 14:0	1 107-02-8	
Acrylonitrile	ND	ug/L		4.0	1		05/04/16 14:0		
Benzene	ND	ug/L		1.0	1		05/04/16 14:0		
Bromodichloromethane	ND	ug/L		1.0	1		05/04/16 14:01		
Bromoform	ND	ug/L		1.0	1		05/04/16 14:01		
Bromomethane	ND	ug/L		1.0	1		05/04/16 14:01		
2-Butanone (MEK)	ND	ug/L		2.0	1		05/04/16 14:01	1 78-93-3	
Carbon disulfide	ND	ug/L		1.0	1		05/04/16 14:01		
Carbon tetrachloride	ND	ug/L		1.0	1		05/04/16 14:01		
Chlorobenzene	ND	ug/L		1.0	1		05/04/16 14:01		
Chloroethane	ND	ug/L		1.0	1		05/04/16 14:01		
Chloroform	ND	ug/L		1.0	1		05/04/16 14:01		
Chloromethane	ND	ug/L		1.0	1		05/04/16 14:01		
Dibromochloromethane	ND	ug/L		1.0	1		05/04/16 14:01		
Dibromomethane	ND	ug/L		1.0	1		05/04/16 14:01		
1,1-Dichloroethane	ND	ug/L		1.0	1		05/04/16 14:01		
,2-Dichloroethane	ND	ug/L		1.0	1		05/04/16 14:01		
,1-Dichloroethene	ND	ug/L		1.0	1		05/04/16 14:01	The state of the s	
is-1,2-Dichloroethene	ND	ug/L		1.0	1		05/04/16 14:01		
rans-1,2-Dichloroethene	ND	ug/L		1.0	1		05/04/16 14:01		
,2-Dichloropropane	ND	ug/L		1.0	1		05/04/16 14:01		
sis-1,3-Dichloropropene	ND	ug/L		1.0	1		05/04/16 14:01		
rans-1,3-Dichloropropene	ND	ug/L		1.0	1		05/04/16 14:01		
Enflurane	ND	ug/L		1.0	1		05/04/16 14:01		
Ethylbenzene	ND	ug/L		1.0	1		05/04/16 14:01		
laloether 229	ND	ug/L		1.0	1		05/04/16 14:01		
laloether 406	ND	ug/L		1.0	1		05/04/16 14:01		
laloether 421	ND	ug/L		1.0	1		05/04/16 14:01		
laloether 427	ND	ug/L		1.0	1		05/04/16 14:01		
faloether 428	ND	ug/L		1.0	1		05/04/16 14:01		
laloether 508	ND	ug/L		1.0	1		05/04/16 14:01		
laloether 528	ND	ug/L		1.0	1		05/04/16 14:01		
lalomar	ND	ug/L		1.0	1		05/04/16 14:01		
-Hexanone	ND	ug/L		2.0	1		05/04/16 14:01		
soflurane	ND	ug/L		1.0	1		05/04/16 14:01		
Methoxyflurane	ND	ug/L		1.0	1		05/04/16 14:01		
Methylene Chloride	ND	ug/L		5.0	1		05/04/16 14:01		
-Methyl-2-pentanone (MIBK)	ND	ug/L		2.0	1		05/04/16 14:01		
Styrene	ND	ug/L		1.0	1		05/04/16 14:01		
,1,2,2-Tetrachloroethane	ND	ug/L		1.0	1		05/04/16 14:01		
etrachloroethene	ND	ug/L		1.0	1		05/04/16 14:01		
oluene	ND	ug/L		1.0	1		05/04/16 14:01		
otal Haloether	ND	ug/L		1.0	1		05/04/16 14:01		
,1,1-Trichloroethane	ND	ug/L		1.0	1		05/04/16 14:01		
,1,2-Trichloroethane	ND	ug/L		1.0	1		05/04/16 14:01		
richloroethene	ND	ug/L		1.0	1.		05/04/16 14:01		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Sample: TB-20160502	Lab ID:	2036032001	Collected: 05/02/	16 00:00	Received:	05/03/16 08:40	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical	Method: EPA 5	030B/8260					
Trichlorofluoromethane	N	D ug/L	1.0	1		05/04/16 14:0	1 75-69-4	
1,2,3-Trichloropropane	N		1.0	1 .		05/04/16 14:0		
1,1,2-Trichlorotrifluoroethane	N		1.0	1		05/04/16 14:0		
Vinyl chloride	N		1.0	1		05/04/16 14:0		
m&p-Xylene	N		2.0	1			1 179601-23-1	
o-Xylene	N	7	1.0	1		05/04/16 14:0		
Surrogates		-5-	3.5			00/01/10/11/0		
Toluene-d8 (S)	9	5 %.	79-119	1		05/04/16 14:01	1 2037-26-5	
4-Bromofluorobenzene (S)	10	3 %.	68-124	1		05/04/16 14:01		
Dibromofluoromethane (S)	10	3 %.	72-126	1		05/04/16 14:01	1 1868-53-7	
Sample: INF-20160502	Lab ID:	2036032002	Collected: 05/02/	16 07:57	Received:	05/03/16 08:40	Matrix: Water	_
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
		-		_	, roparou	7 that year		Guu
8260 MSV HALOETHERS		Method: EPA 50		2		200000000000000000000000000000000000000	- ALI en a	
Acetone	7.		4.0	1		05/04/16 14:19		
Acrolein	NI		8.0	1		05/04/16 14:19		
Acrylonitrile	N	9	4.0	1		05/04/16 14:19		
Benzene	N		1.0	1		05/04/16 14:19		
Bromodichloromethane	N		1.0	1		05/04/16 14:19		
Bromoform	N	-	1.0	1		05/04/16 14:19		
Bromomethane	NI		1.0	1		05/04/16 14:19		
2-Butanone (MEK)	N		2.0	4		05/04/16 14:19		
Carbon disulfide	N		1.0	1		05/04/16 14:19		
Carbon tetrachloride	NE		1.0	1		05/04/16 14:19		
Chlorobenzene	NE		1.0	1		05/04/16 14:19		
Chloroethane	NE		1.0	1		05/04/16 14:19		
Chloroform	NE		1.0	1		05/04/16 14:19		
Chloromethane	NE		1.0	1		05/04/16 14:19		
Dibromochloromethane	NE		1.0	1		05/04/16 14:19		
Dibromomethane	NE		1.0	1		05/04/16 14:19		
1,1-Dichloroethane	NE		1.0	1		05/04/16 14:19		
1,2-Dichloroethane	NE		1.0	1		05/04/16 14:19		
1,1-Dichloroethene	NE		1.0	1		05/04/16 14:19		
cis-1,2-Dichloroethene	NE		1.0	1		05/04/16 14:19		
trans-1,2-Dichloroethene	NE		1.0	1		05/04/16 14:19		
1,2-Dichloropropane	NE		1.0	1		05/04/16 14:19		
cis-1,3-Dichloropropene	NE		1.0	1		05/04/16 14:19	the second secon	
rans-1,3-Dichloropropene	NE		1.0	1		05/04/16 14:19		
Enflurane	1.9		1.0	1		05/04/16 14:19		
Ethylbenzene	NE	-	1.0	1		05/04/16 14:19		
Haloether 229	39.1		1.0	1		05/04/16 14:19		
Haloether 406	1.2		1.0	1		05/04/16 14:19		
Haloether 421	NE		1.0	1.		05/04/16 14:19		
Haloether 427	ND) ug/L	1.0	1		05/04/16 14:19		

REPORT OF LABORATORY ANALYSIS

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Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Sample: INF-20160502	Lab ID:	2036032002	Collected: 05/02/	16 07:57	Received:	05/03/16 08:40	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical	Method: EPA 50	030B/8260					
Haloether 428	N	D ug/L	1.0	1		05/04/16 14:1	9	
Haloether 508	59.	.3 ug/L	1.0	1		05/04/16 14:1	9	
Haloether 528	1.		1.0	1		05/04/16 14:1	9	
Halomar	1.		1.0	1		05/04/16 14:1	9	
2-Hexanone	N		2.0	1		05/04/16 14:1		
Isoflurane	14		1.0	1		05/04/16 14:1		
Methoxyflurane	N		1.0	1		05/04/16 14:1		
Methylene Chloride	N		5.0	1		05/04/16 14:1		
4-Methyl-2-pentanone (MIBK)	N		2.0	1		05/04/16 14:1	5 717175	
Styrene	N		1.0	1		05/04/16 14:1		
	N		1.0	1		05/04/16 14:1		
1,1,2,2-Tetrachloroethane				1		05/04/16 14:1		
Tetrachloroethene	7.		1.0					
Toluene	N		1.0	1		05/04/16 14:1	Service and an arrangement	
Total Haloether	24		1.0	1		05/04/16 14:1		
1,1,1-Trichloroethane	N		1.0	1		05/04/16 14:1		
1,1,2-Trichloroethane	N		1.0	1		05/04/16 14:1		
Trichloroethene	N	D ug/L	1.0	1		05/04/16 14:1		
Trichlorofluoromethane	N	D ug/L	1.0	1		05/04/16 14:1	9 75-69-4	
1,2,3-Trichloropropane	N		1.0	1		05/04/16 14:1	9 96-18-4	
1,1,2-Trichlorotrifluoroethane	N	D ug/L	1.0	1		05/04/16 14:1	9 76-13-1	
Vinyl chloride	N	D ug/L	1.0	1		05/04/16 14:19	9 75-01-4	
m&p-Xylene	N	D ug/L	2.0	1		05/04/16 14:19	9 179601-23-	1
o-Xylene	N		1.0	1		05/04/16 14:11	9 95-47-6	
Surrogates								
Toluene-d8 (S)	10	0 %.	79-119	1		05/04/16 14:11	9 2037-26-5	
4-Bromofluorobenzene (S)	10	6 %.	68-124	1		05/04/16 14:19	9 460-00-4	
Dibromofluoromethane (S)	10		72-126	1		05/04/16 14:1	9 1868-53-7	
Sample: EFF-20160502	Lab ID:	2036032003	Collected: 05/02/	16 08:15	Received:	05/03/16 08:40	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical	Method: EPA 50	030B/8260				-	
Acetone	12.	4 ug/L	4.0	1		05/04/16 11:04	1 67-64-1	
Acrolein	N.		8.0	1		05/04/16 11:04		_M+ R
	N		4.0	1		05/04/16 11:04	A CONTROL OF THE REAL PROPERTY.	-1411
Acrylonitrile						05/04/16 11:04		
Benzene	NI		1.0	1		05/04/16 11:04		
Bromodichloromethane	NI		1.0	1				
Bromoform	N		1.0	1		05/04/16 11:04		
Bromomethane	NI		1.0	1		05/04/16 11:04		
2-Butanone (MEK)	N		2.0	1		05/04/16 11:04		41.44
Carbon disulfide	N		1.0	1.		05/04/16 11:04		-RI U
Carbon tetrachloride	N		1.0	1		05/04/16 11:04		
Chlorobenzene	N		1.0	1		05/04/16 11:04		
Chloroethane	NI	D ug/L	1.0	1		05/04/16 11:04	75-00-3	
Omorodiano				1		05/04/16 11:04		

REPORT OF LABORATORY ANALYSIS

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Project:

Fibers Public Supply Wells

Pace Project No.:

Date: 05/16/2016 04:46 PM

2036032

Sample: EFF-20160502	Lab ID: 203	6032003	Collected: 05/02/1	6 08:15	Received:	05/03/16 08:40	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Chloromethane	ND	ug/L	1.0	1		05/04/16 11:04	4 74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		05/04/16 11:04	4 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		05/04/16 11:04	4 74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/04/16 11:04	4 75-34-3	
,2-Dichloroethane	ND	ug/L	1.0	1		05/04/16 11:04	4 107-06-2	Man
,1-Dichloroethene	ND	ug/L	1.0	1		05/04/16 11:04	4 75-35-4	RT U
is-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 11:04	4 156-59-2	
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 11:04	4 156-60-5	
,2-Dichloropropane	ND	ug/L	1.0	1		05/04/16 11:04	4 78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/04/16 11:04	4 10061-01-5	MI,RI U
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/04/16 11:04	1 10061-02-6	
Influrane	ND	ug/L	1.0	1		05/04/16 11:04	1 13838-16-9	1260
Ethylbenzene	ND	ug/L	1.0	1		05/04/16 11:04	1 100-41-4	RT U
Haloether 229	ND	ug/L	1.0	1		05/04/16 11:04	4	-
Haloether 406	ND	ug/L	1.0	1		05/04/16 11:04	1	
laloether 421	ND	ug/L	1.0	1		05/04/16 11:04	4	
laloether 427	ND	ug/L	1.0	1		05/04/16 11:04	4	
laloether 428	ND	ug/L	1.0	1		05/04/16 11:04	4	
aloether 508	ND	ug/L	1.0	1		05/04/16 11:04	4	
Haloether 528	ND	ug/L	1.0	1		05/04/16 11:04	4	
falomar	ND	ug/L	1.0	1		05/04/16 11:04		
2-Hexanone	ND	ug/L	2.0	1		05/04/16 11:04	4 591-78-6	
soflurane	ND	ug/L	1.0	1		05/04/16 11:04	4	
Methoxyflurane	ND	ug/L	1.0	1		05/04/16 11:04	4 76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		05/04/16 11:04		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		05/04/16 11:04	1 108-10-1	-
Styrene	ND	ug/L	1.0	1_		05/04/16 11:0		MI-R
,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/04/16 11:04		
etrachloroethene	ND	ug/L	1.0	1		05/04/16 11:04		
oluene	ND	ug/L	1.0	1		05/04/16 11:04		-M1.R1 V.
otal Haloether	ND	ug/L	1.0	1		05/04/16 11:04		74.34.
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/04/16 11:04		
,1,2-Trichloroethane	ND	ug/L	1.0	1		05/04/16 11:04		
richloroethene	ND	ug/L	1.0	1		05/04/16 11:04		
richlorofluoromethane	ND	ug/L	1.0	1		05/04/16 11:04		
,2,3-Trichloropropane	ND	ug/L	1.0	1		05/04/16 11:04		
1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/04/16 11:04		
/inyl chloride	ND	ug/L	1.0	1		05/04/16 11:04		MIRT U
n&p-Xylene	ND ND	ug/L ug/L	2.0	1			1 179601-23	MI- R
nap-Aylene p-Xylene	ND	ug/L ug/L	1.0	4		05/04/16 11:04		M1,R1
Surrogates	NU	ugrL	1.0	,		00/0 1/10 11.0		and, and
oluene-d8 (S)	93	%.	79-119	1		05/04/16 11:04	4 2037-26-5	
-Bromofluorobenzene (S)	104	%.	68-124	1		05/04/16 11:04		
Dibromofluoromethane (S)	102	%.	72-126	1		05/04/16 11:04		



Project:

Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Sample: EFFDUP-20160502	Lab ID: 203	6032004	Collected: 05/02/1	6 08:15	Received:	05/03/16 08:40	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical Met	hod: EPA 50	030B/8260					
Acetone	15.6	ug/L	4.0	1		05/04/16 14:3	7 67-64-1	
Acrolein	ND	ug/L	8.0	1		05/04/16 14:3	7 107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		05/04/16 14:3	7 107-13-1	
Benzene	ND	ug/L	1.0	1		05/04/16 14:3	7 71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		05/04/16 14:3	7 75-27-4	
Bromoform	ND	ug/L	1.0	1		05/04/16 14:3	7 75-25-2	
Bromomethane	ND	ug/L	1.0	1		05/04/16 14:3	7 74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		05/04/16 14:3	7 78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		05/04/16 14:3		
Carbon tetrachloride	ND	ug/L	1.0	1		05/04/16 14:3		
Chlorobenzene	ND	ug/L	1.0	1		05/04/16 14:3		
Chloroethane	ND	ug/L	1.0	1		05/04/16 14:3		
Chloroform	ND	ug/L	1.0	1		05/04/16 14:3		
Chloromethane	ND	ug/L	1.0	1		05/04/16 14:3		
Dibromochloromethane	ND	ug/L	1.0	1		05/04/16 14:3		
Dibromomethane	ND	ug/L	1.0	1		05/04/16 14:3		
1.1-Dichloroethane	ND	ug/L	1.0	1		05/04/16 14:3		
1,2-Dichloroethane	ND	ug/L	1.0	1		05/04/16 14:3		
1.1-Dichloroethene	ND	ug/L	1.0	1		05/04/16 14:3		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 14:3		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 14:3		
1,2-Dichloropropane	ND	ug/L	1.0	1		05/04/16 14:3		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/04/16 14:3		
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/04/16 14:3		
Enflurane	ND	ug/L	1.0	1		05/04/16 14:3		
Ethylbenzene	ND	ug/L	1.0	1		05/04/16 14:3		
Haloether 229	ND	ug/L	1.0	1		05/04/16 14:3		
Haloether 406	ND	ug/L	1.0	1		05/04/16 14:3		
Haloether 421	ND	ug/L	1.0	1		05/04/16 14:3		
Haloether 427	ND	ug/L	1.0	1		05/04/16 14:3		
Haloether 428	ND		1.0	1				
Haloether 508	ND	ug/L	1.0	1		05/04/16 14:3		
		ug/L				05/04/16 14:3		
Haloether 528	ND	ug/L	1.0	1		05/04/16 14:3		
Halomar	ND	ug/L	1.0			05/04/16 14:37	. T. T	
2-Hexanone	ND	ug/L	2.0	1		05/04/16 14:37		
soflurane	ND	ug/L	1.0	1		05/04/16 14:37		
Methoxyflurane	ND	ug/L	1.0	1		05/04/16 14:37		
Methylene Chloride	ND	ug/L	5.0	1		05/04/16 14:37		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		05/04/16 14:37		
Styrene	ND	ug/L	1.0	1		05/04/16 14:37		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/04/16 14:37		
Tetrachloroethene	ND	ug/L	1.0	1		05/04/16 14:37		
Toluene	ND	ug/L	1.0	1		05/04/16 14:37		
Total Haloether	ND	ug/L	1.0	1		05/04/16 14:37		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/04/16 14:37		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/04/16 14:37		
Trichloroethene	ND	ug/L	1.0	1		05/04/16 14:37	79-01-6	



Project: Fibers Public Supply Wells

Date: 05/16/2016 04:46 PM

Pace Project No.: 2036032

Sample: EFFDUP-20160502	Lab ID: 203	6032004	Collected: 05/02/1	6 08:15	Received: 0	05/03/16 08:40	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Trichlorofluoromethane	ND	ug/L	1.0	1		05/04/16 14:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/04/16 14:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/04/16 14:37	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		05/04/16 14:37	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		05/04/16 14:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/04/16 14:37	95-47-6	
Surrogates								
Toluene-d8 (S)	92	%.	79-119	1		05/04/16 14:37	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	68-124	1		05/04/16 14:37	460-00-4	
Dibromofluoromethane (S)	100	%.	72-126	1		05/04/16 14:37	1868-53-7	

CHAIN-OF-CUSTODY

JO#: 2036032

The Chain-of-Custody is a LEGAI

2036032

(N/Y) saldmes SAMPLE CONDITIONS Comments (N/A) 5 191005 Sealed Cuslody (N/A) Regulatory Agency Received on State / Location CERCLA Residual Chlorine (Y/N) Page: TEMP in C TIME EPA 300.0 Chloride Requested Analysis Filtered (Y/N) DATE RSK 175 Methane EPA 6010 Total Metals (Fe, Mn) EPA 6010 Dissolved Metals (Fe, Mn) ASTM D516,90,02 Sulfate ustin.stock@pacelabs.com SM 53108 TOC ACCEPTED BY / AFFILIATION SM 2320B Alkalinity EPA 8260B Haloethers N/A Analyses Test Attention: Accounts Payable Company Name: ARCADIS Methanol Preservatives COSSEN HOPN Pace Project Manager: HCI Section C Invoice Information. HNO *OSZH Pace Quote 840 TIME Address: Unpreserved # OF CONTAINERS SAMPLER NAME AND SIGNATURE PRINT Name of SMPLER: SIGNATURE of SAMPLER: SAMPLE TEMP AT COLLECTION DATE 00/m 710000 15/0C/B 11/15 yertlany 15 tolk DY15 TIME END cassandra.mccloud@ardadis-us.com Purchase Order#: CO001911.0003 1602A Project Name. Fibers Public Supply Wells Project #. CO001911.0003.1602A DATE Canal COLLECTED 万イ RELINQUISHED BY / AFFILIATION TIME Cassandra McCloud ART Required Project Information David Howard 0 0 SAMPLE TYPE (G=GRAB C=COMP) ه. 131513 ž 3 MATRIX CODE (see valid codes to teft) Report To: Copy To: MATRIX
Drinking Water
Water
Waste Water
Waste Water
Product
Product
ON
Wipe
Aur
Other
Tissue david.howard@arcadis-us.com Suite 1000 20160502 -2016 05 01 -2016 05 CM ADDITIONAL COMMENTS One Character per box. (A-Z, 0-91, -) Sample Ids must be unique 101605 OC SAMPLE ID ARCADIS U.S., Inc. 410 North 44th St., 602.797.4518 Required Client Information: Phoenix, AZ 85008 Email To: david.h Requested Due Date Address: # WHIL 19 F 12 N 3 4 40 9 1 0 6

Page 20 of 21

Attachment 2 Laboratory Analytical Report





May 16, 2016

David Howard ARCADIS 410 North 44th St. Suite 1000 Phoenix, AZ 85008

RE: Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Dear David Howard:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Justin L. Stock

Justin Stock

justin.stock@pacelabs.com

Project Manager

Enclosures

cc: Janisse Diaz, Arcadis Cassandra McCloud Elvin Varela, ARCADIS





1000 Riverbend Blvd - Suite F St. Rose, LA 70087 (504)469-0333

CERTIFICATIONS

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch: 11277CA

Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 0025721
Kansas Department of Health and Environment (NELAC):

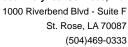
Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Pennsylviania Dept. of Env Protection (NELAC): 68-04202 Texas Commission on Env. Quality (NELAC):

T104704405-09-TX
U.S. Dept. of Agriculture Foreign Soil Import: P330-10-

00119



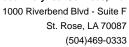


SAMPLE SUMMARY

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2036032001	TB-20160502	Water	05/02/16 00:00	05/03/16 08:40
2036032002	INF-20160502	Water	05/02/16 07:57	05/03/16 08:40
2036032003	EFF-20160502	Water	05/02/16 08:15	05/03/16 08:40
2036032004	EFFDUP-20160502	Water	05/02/16 08:15	05/03/16 08:40





SAMPLE ANALYTE COUNT

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2036032001	TB-20160502	EPA 5030B/8260	MLS	56	PASI-N
2036032002	INF-20160502	EPA 5030B/8260	MLS	56	PASI-N
2036032003	EFF-20160502	EPA 5030B/8260	MLS	56	PASI-N
2036032004	EFFDUP-20160502	EPA 5030B/8260	MLS	56	PASI-N





PROJECT NARRATIVE

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Method: EPA 5030B/8260

Description: 8260 MSV HALOETHERS

Client: **ARCADIS** Date: May 16, 2016

General Information:

4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/4850

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2036032003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 222077)
 - Acrolein
 - Styrene
 - m&p-Xylene
 - o-Xylene
- MSD (Lab ID: 222078)
 - Acrolein
 - Styrene
 - Toluene
 - Vinvl chloride
 - cis-1,3-Dichloropropene
 - m&p-Xylene
 - o-Xylene



St. Rose, LA 70087 (504)469-0333

PROJECT NARRATIVE

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Method: EPA 5030B/8260

Description: 8260 MSV HALOETHERS

Client: ARCADIS

Date: May 16, 2016

QC Batch: MSV/4850

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2036032003

R1: RPD value was outside control limits.

• MSD (Lab ID: 222078)

- 1,1-Dichloroethene
- Carbon disulfide
- Ethylbenzene
- Toluene
- Vinyl chloride
- cis-1,3-Dichloropropene
- o-Xylene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Sample: TB-20160502	Lab ID: 203	6032001	Collected: 05/02/1	6 00:00	Received:	05/03/16 08:40	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Acetone	ND	ug/L	4.0	1		05/04/16 14:0	1 67-64-1	
Acrolein	ND	ug/L	8.0	1		05/04/16 14:0	1 107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		05/04/16 14:0	1 107-13-1	
Benzene	ND	ug/L	1.0	1		05/04/16 14:0	1 71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		05/04/16 14:0	1 75-27-4	
Bromoform	ND	ug/L	1.0	1		05/04/16 14:0	1 75-25-2	
Bromomethane	ND	ug/L	1.0	1		05/04/16 14:0	1 74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		05/04/16 14:0	1 78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		05/04/16 14:0	1 75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		05/04/16 14:0	1 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/04/16 14:0	1 108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/04/16 14:0	1 75-00-3	
Chloroform	ND	ug/L	1.0	1		05/04/16 14:0	1 67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/04/16 14:0		
Dibromochloromethane	ND	ug/L	1.0	1		05/04/16 14:0	1 124-48-1	
Dibromomethane	ND	ug/L	1.0	1		05/04/16 14:0	_	
.1-Dichloroethane	ND	ug/L	1.0	1		05/04/16 14:0		
,2-Dichloroethane	ND	ug/L	1.0	1		05/04/16 14:0		
,1-Dichloroethene	ND	ug/L	1.0	1		05/04/16 14:0		
sis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 14:0		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 14:0		
,2-Dichloropropane	ND	ug/L	1.0	1		05/04/16 14:0		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/04/16 14:0		
rans-1,3-Dichloropropene	ND ND	ug/L	1.0	1		05/04/16 14:0		
Enflurane	ND ND	_	1.0	1		05/04/16 14:0		
		ug/L		1				
Ethylbenzene Haloether 229	ND	ug/L	1.0	1		05/04/16 14:0		
	ND	ug/L	1.0			05/04/16 14:0		
Haloether 406	ND	ug/L	1.0	1		05/04/16 14:0		
Haloether 421	ND	ug/L	1.0	1		05/04/16 14:0		
Haloether 427	ND	ug/L	1.0	1		05/04/16 14:0		
Haloether 428	ND	ug/L	1.0	1		05/04/16 14:0		
Haloether 508	ND	ug/L	1.0	1		05/04/16 14:0		
Haloether 528	ND	ug/L	1.0	1		05/04/16 14:0		
Halomar	ND	ug/L	1.0	1		05/04/16 14:0		
2-Hexanone	ND	ug/L	2.0	1		05/04/16 14:0		
soflurane	ND	ug/L	1.0	1		05/04/16 14:0		
Methoxyflurane	ND	ug/L	1.0	1		05/04/16 14:0		
Methylene Chloride	ND	ug/L	5.0	1		05/04/16 14:0		
-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		05/04/16 14:0		
Styrene	ND	ug/L	1.0	1		05/04/16 14:0		
,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/04/16 14:0		
Tetrachloroethene	ND	ug/L	1.0	1		05/04/16 14:0		
Toluene	ND	ug/L	1.0	1		05/04/16 14:0	1 108-88-3	
otal Haloether	ND	ug/L	1.0	1		05/04/16 14:0	1	
,1,1-Trichloroethane	ND	ug/L	1.0	1		05/04/16 14:0	1 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/04/16 14:0	1 79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/04/16 14:0	1 79-01-6	



Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Sample: TB-20160502	Lab ID: 203	6032001	Collected: 05/02/1	16 00:00	Received: 05/03/16 08:40 Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV HALOETHERS	Analytical Met	hod: EPA 5	030B/8260						
Trichlorofluoromethane	ND	ug/L	1.0	1		05/04/16 14:01	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/04/16 14:01	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/04/16 14:01	76-13-1		
Vinyl chloride	ND	ug/L	1.0	1		05/04/16 14:01	75-01-4		
m&p-Xylene	ND	ug/L	2.0	1		05/04/16 14:01	179601-23-1		
o-Xylene	ND	ug/L	1.0	1		05/04/16 14:01			
Surrogates		9-		•					
Toluene-d8 (S)	95	%.	79-119	1		05/04/16 14:01	2037-26-5		
4-Bromofluorobenzene (S)	103	%.	68-124	1		05/04/16 14:01	460-00-4		
Dibromofluoromethane (S)	103	%.	72-126	1		05/04/16 14:01			
Sample: INF-20160502	Lab ID: 203	6032002	Collected: 05/02/1	16 07:57	Received: 0	05/03/16 08:40 N	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
					- Troparcu			- Qua	
3260 MSV HALOETHERS	Analytical Met	nod: EPA 50	030B/8260						
Acetone	7.5	ug/L	4.0	1		05/04/16 14:19	67-64-1		
Acrolein	ND	ug/L	8.0	1		05/04/16 14:19	107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		05/04/16 14:19	107-13-1		
Benzene	ND	ug/L	1.0	1		05/04/16 14:19	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		05/04/16 14:19	75-27-4		
Bromoform	ND	ug/L	1.0	1		05/04/16 14:19	75-25-2		
Bromomethane	ND	ug/L	1.0	1		05/04/16 14:19	74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		05/04/16 14:19	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		05/04/16 14:19	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		05/04/16 14:19	56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		05/04/16 14:19			
Chloroethane	ND	ug/L	1.0	1		05/04/16 14:19			
Chloroform	ND	ug/L	1.0	1		05/04/16 14:19			
Chloromethane	ND	ug/L	1.0	1		05/04/16 14:19			
Dibromochloromethane	ND	ug/L	1.0	1		05/04/16 14:19			
Dibromomethane	ND	ug/L	1.0	1		05/04/16 14:19			
,1-Dichloroethane	ND	ug/L	1.0	1		05/04/16 14:19			
,,1-Dichloroethane	ND ND	ug/L	1.0	1		05/04/16 14:19			
1,1-Dichloroethene	ND ND	ug/L ug/L	1.0	1		05/04/16 14:19			
cis-1,2-Dichloroethene	ND ND	ug/L ug/L	1.0	1		05/04/16 14:19			
rans-1,2-Dichloroethene	ND ND	_	1.0	1		05/04/16 14:19			
•		ug/L							
1,2-Dichloropropane	ND ND	ug/L	1.0	1		05/04/16 14:19			
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/04/16 14:19			
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/04/16 14:19			
Enflurane	1.9	ug/L	1.0	1		05/04/16 14:19			
Ethylbenzene	ND	ug/L	1.0	1		05/04/16 14:19			
Haloether 229	39.1	ug/L	1.0	1		05/04/16 14:19			
Haloether 406	1.2	ug/L	1.0	1		05/04/16 14:19			
Haloether 421	ND	ug/L	1.0	1		05/04/16 14:19			
Haloether 427	ND	ug/L	1.0	1		05/04/16 14:19			

REPORT OF LABORATORY ANALYSIS

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Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Sample: INF-20160502	Lab ID: 203	6032002	Collected: 05/02/1	6 07:57	Received: 0	5/03/16 08:40 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Haloether 428	ND	ug/L	1.0	1		05/04/16 14:19		
Haloether 508	59.3	ug/L	1.0	1		05/04/16 14:19		
Haloether 528	1.6	ug/L	1.0	1		05/04/16 14:19		
Halomar	1.3	ug/L	1.0	1		05/04/16 14:19		
2-Hexanone	ND	ug/L	2.0	1		05/04/16 14:19	591-78-6	
soflurane	145	ug/L	1.0	1		05/04/16 14:19		
Methoxyflurane	ND	ug/L	1.0	1		05/04/16 14:19	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		05/04/16 14:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		05/04/16 14:19	108-10-1	
Styrene	ND	ug/L	1.0	1		05/04/16 14:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/04/16 14:19	79-34-5	
Tetrachloroethene	7.1	ug/L	1.0	1		05/04/16 14:19	127-18-4	
Toluene	ND	ug/L	1.0	1		05/04/16 14:19	108-88-3	
Total Haloether	249	ug/L	1.0	1		05/04/16 14:19		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/04/16 14:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/04/16 14:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/04/16 14:19		
Trichlorofluoromethane	ND	ug/L	1.0	1		05/04/16 14:19		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/04/16 14:19		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/04/16 14:19		
Vinyl chloride	ND	ug/L	1.0	1		05/04/16 14:19		
m&p-Xylene	ND	ug/L	2.0	1		05/04/16 14:19		
o-Xylene	ND	ug/L	1.0	1		05/04/16 14:19		
Surrogates	ND	ug/L	1.0	•		00/04/10 14:10	30 47 0	
Toluene-d8 (S)	100	%.	79-119	1		05/04/16 14:19	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	68-124	1		05/04/16 14:19		
Dibromofluoromethane (S)	101	%.	72-126	1		05/04/16 14:19		
Sample: EFF-20160502	Lab ID: 203	6032003	Collected: 05/02/1	6 08:15	Received: 05	5/03/16 08:40 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qu
B260 MSV HALOETHERS	Analytical Metl	nod: EPA 50	 030B/8260				_	
Acetone	12.4	ug/L	4.0	1		05/04/16 11:04	67-64-1	
Acrolein	ND	ug/L	8.0	1		05/04/16 11:04		M1
Acrylonitrile	ND	ug/L	4.0	1		05/04/16 11:04		
•	ND	ug/L	1.0	1		05/04/16 11:04		
Benzene			• •			05/04/16 11:04		
		ua/L	1.0	1				
Bromodichloromethane	ND	ug/L ug/L	1.0 1.0	1			75-25-2	
Bromodichloromethane Bromoform	ND ND	ug/L	1.0 1.0 1.0			05/04/16 11:04 05/04/16 11:04		
Bromodichloromethane Bromoform Bromomethane	ND ND ND	ug/L ug/L	1.0 1.0	1 1		05/04/16 11:04 05/04/16 11:04	74-83-9	
Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK)	ND ND ND ND	ug/L ug/L ug/L	1.0 1.0 2.0	1 1 1		05/04/16 11:04 05/04/16 11:04 05/04/16 11:04	74-83-9 78-93-3	R1
Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide	ND ND ND ND ND	ug/L ug/L ug/L ug/L	1.0 1.0 2.0 1.0	1 1 1 1		05/04/16 11:04 05/04/16 11:04 05/04/16 11:04 05/04/16 11:04	74-83-9 78-93-3 75-15-0	R1
Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L	1.0 1.0 2.0 1.0	1 1 1 1		05/04/16 11:04 05/04/16 11:04 05/04/16 11:04 05/04/16 11:04 05/04/16 11:04	74-83-9 78-93-3 75-15-0 56-23-5	R1
Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide	ND ND ND ND ND	ug/L ug/L ug/L ug/L	1.0 1.0 2.0 1.0	1 1 1 1		05/04/16 11:04 05/04/16 11:04 05/04/16 11:04 05/04/16 11:04	74-83-9 78-93-3 75-15-0 56-23-5 108-90-7	R1

(504)469-0333



ANALYTICAL RESULTS

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Sample: EFF-20160502	Lab ID: 2	2036032003	Collected: 05/02/16	8 08:15	Received: 0	Received: 05/03/16 08:40 Matrix: Wa					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
8260 MSV HALOETHERS	Analytical M	Method: EPA 50	030B/8260								
Chloromethane	ND	ug/L	1.0	1		05/04/16 11:04	74-87-3				
Dibromochloromethane	ND	ug/L	1.0	1		05/04/16 11:04	124-48-1				
Dibromomethane	ND	ug/L	1.0	1		05/04/16 11:04	74-95-3				
1,1-Dichloroethane	ND	ug/L	1.0	1		05/04/16 11:04	75-34-3				
1,2-Dichloroethane	ND	ug/L	1.0	1		05/04/16 11:04	107-06-2				
1,1-Dichloroethene	ND	ug/L	1.0	1		05/04/16 11:04	75-35-4	R1			
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 11:04	156-59-2				
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 11:04	156-60-5				
1,2-Dichloropropane	ND	ug/L	1.0	1		05/04/16 11:04	78-87-5				
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/04/16 11:04	10061-01-5	M1,R1			
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/04/16 11:04	10061-02-6				
Enflurane	ND	ug/L	1.0	1		05/04/16 11:04	13838-16-9				
Ethylbenzene	ND	ug/L	1.0	1		05/04/16 11:04	100-41-4	R1			
Haloether 229	ND	ug/L	1.0	1		05/04/16 11:04					
Haloether 406	ND	ug/L	1.0	1		05/04/16 11:04					
Haloether 421	ND	ug/L	1.0	1		05/04/16 11:04					
Haloether 427	ND	_	1.0	1		05/04/16 11:04					
Haloether 428	ND	_	1.0	1		05/04/16 11:04					
Haloether 508	ND	ug/L	1.0	1		05/04/16 11:04					
Haloether 528	ND	ug/L	1.0	1		05/04/16 11:04					
Halomar	ND	ug/L	1.0	1		05/04/16 11:04					
2-Hexanone	ND	ug/L	2.0	1		05/04/16 11:04	591-78-6				
soflurane	ND	_	1.0	1		05/04/16 11:04					
Methoxyflurane	ND	ug/L	1.0	1		05/04/16 11:04	76-38-0				
Methylene Chloride	ND	•	5.0	1		05/04/16 11:04	75-09-2				
4-Methyl-2-pentanone (MIBK)	ND	Ū	2.0	1		05/04/16 11:04					
Styrene	ND	Ū	1.0	1		05/04/16 11:04	100-42-5	M1			
1,1,2,2-Tetrachloroethane	ND	_	1.0	1		05/04/16 11:04					
Tetrachloroethene	ND	Ū	1.0	1		05/04/16 11:04					
Toluene	ND	Ū	1.0	1		05/04/16 11:04		M1,R1			
Total Haloether	ND	Ū	1.0	1		05/04/16 11:04		,			
1,1,1-Trichloroethane	ND	J	1.0	1		05/04/16 11:04	71-55-6				
1,1,2-Trichloroethane	ND	J	1.0	1		05/04/16 11:04					
Trichloroethene	ND	J	1.0	1		05/04/16 11:04					
Trichlorofluoromethane	ND	J	1.0	1		05/04/16 11:04					
1,2,3-Trichloropropane	ND		1.0	1		05/04/16 11:04					
1,1,2-Trichlorotrifluoroethane	ND	-	1.0	1		05/04/16 11:04					
Vinyl chloride	ND	Ū	1.0	1		05/04/16 11:04		M1,R1			
m&p-Xylene	ND	Ū	2.0	1		05/04/16 11:04		,			
o-Xylene	ND ND	Ū	1.0	1		05/04/16 11:04		M1,R1			
Surrogates	ND	ug/L	1.0	•		30/0-//10 11.04	50 41-0	(VI 1, 1 X I			
Toluene-d8 (S)	93	%.	79-119	1		05/04/16 11:04	2037-26-5				
4-Bromofluorobenzene (S)	104		68-124	1		05/04/16 11:04					
Dibromofluoromethane (S)	102		72-126			30,0 1, 10 11.04	.00 00 7				

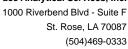


Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Sample: EFFDUP-20160502	Lab ID: 203	6032004	Collected: 05/02/1	6 08:15	Received:	05/03/16 08:40	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua	
3260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260						
Acetone	15.6	ug/L	4.0	1		05/04/16 14:3	7 67-64-1		
Acrolein	ND	ug/L	8.0	1		05/04/16 14:3	7 107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		05/04/16 14:3	7 107-13-1		
Benzene	ND	ug/L	1.0	1		05/04/16 14:3	7 71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		05/04/16 14:3	7 75-27-4		
Bromoform	ND	ug/L	1.0	1		05/04/16 14:3	7 75-25-2		
3romomethane	ND	ug/L	1.0	1		05/04/16 14:3	7 74-83-9		
2-Butanone (MEK)	ND	ug/L	2.0	1		05/04/16 14:3	7 78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		05/04/16 14:3	7 75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		05/04/16 14:3	7 56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		05/04/16 14:3	7 108-90-7		
Chloroethane	ND	ug/L	1.0	1		05/04/16 14:3	7 75-00-3		
Chloroform	ND	ug/L	1.0	1		05/04/16 14:3	7 67-66-3		
Chloromethane	ND	ug/L	1.0	1		05/04/16 14:3	7 74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		05/04/16 14:3	7 124-48-1		
Dibromomethane	ND	ug/L	1.0	1		05/04/16 14:3	7 74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		05/04/16 14:3	7 75-34-3		
,2-Dichloroethane	ND	ug/L	1.0	1		05/04/16 14:3	7 107-06-2		
,1-Dichloroethene	ND	ug/L	1.0	1		05/04/16 14:3			
sis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 14:3			
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/04/16 14:3			
,2-Dichloropropane	ND	ug/L	1.0	1		05/04/16 14:3			
cis-1,3-Dichloropropene	ND	ug/L	1.0	1			7 10061-01-5		
rans-1,3-Dichloropropene	ND	ug/L	1.0	1			7 10061-02-6		
Enflurane	ND	ug/L	1.0	1			7 13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		05/04/16 14:3			
Haloether 229	ND ND	ug/L	1.0	1		05/04/16 14:3			
Haloether 406	ND	ug/L	1.0	1		05/04/16 14:3			
Haloether 421	ND	ug/L	1.0	1		05/04/16 14:3			
Haloether 427	ND	ug/L	1.0	1		05/04/16 14:3			
Haloether 428	ND ND	ug/L	1.0	1		05/04/16 14:3			
Haloether 508	ND ND	ug/L ug/L	1.0	1		05/04/16 14:3			
Haloether 528	ND ND	ug/L ug/L	1.0	1		05/04/16 14:3			
Halomar	ND ND	•	1.0	1		05/04/16 14:3			
naiomai 2-Hexanone	ND ND	ug/L	2.0	1		05/04/16 14:3			
		ug/L							
soflurane	ND	ug/L	1.0	1		05/04/16 14:3			
Methoxyflurane	ND	ug/L	1.0	1		05/04/16 14:3			
Methylene Chloride	ND	ug/L	5.0	1		05/04/16 14:3			
-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		05/04/16 14:3			
Styrene	ND	ug/L	1.0	1		05/04/16 14:3			
,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/04/16 14:3			
Tetrachloroethene	ND	ug/L	1.0	1		05/04/16 14:3			
Toluene	ND	ug/L	1.0	1		05/04/16 14:3			
Total Haloether	ND	ug/L	1.0	1		05/04/16 14:3			
,1,1-Trichloroethane	ND	ug/L	1.0	1		05/04/16 14:3			
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/04/16 14:3			
Trichloroethene	ND	ug/L	1.0	1		05/04/16 14:3	7 79-01-6		





Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Sample: EFFDUP-20160502	Lab ID: 2036	Lab ID: 2036032004		Collected: 05/02/16 08:15		5/03/16 08:40 N	Matrix: Water			
Parameters	Results Units		Report Limit	Report Limit DF		Analyzed	CAS No.	Qual		
8260 MSV HALOETHERS	Analytical Meth	Analytical Method: EPA 5030B/8260								
Trichlorofluoromethane	ND	ug/L	1.0	1		05/04/16 14:37	75-69-4			
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/04/16 14:37	96-18-4			
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		05/04/16 14:37	76-13-1			
Vinyl chloride	ND	ug/L	1.0	1		05/04/16 14:37	75-01-4			
m&p-Xylene	ND	ug/L	2.0	1		05/04/16 14:37	179601-23-1			
o-Xylene	ND	ug/L	1.0	1		05/04/16 14:37	95-47-6			
Surrogates		_								
Toluene-d8 (S)	92	%.	79-119	1		05/04/16 14:37	2037-26-5			
4-Bromofluorobenzene (S)	103	%.	68-124	1		05/04/16 14:37	460-00-4			
Dibromofluoromethane (S)	100	%.	72-126	1		05/04/16 14:37	1868-53-7			

(504)469-0333



QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

QC Batch: MSV/4850 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV

Associated Lab Samples: 2036032001, 2036032002, 2036032003, 2036032004

METHOD BLANK: 222075 Matrix: Water
Associated Lab Samples: 2036032001, 2036032002, 2036032003, 2036032004

	,	Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/04/16 09:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/04/16 09:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/04/16 09:30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/04/16 09:30	
1,1-Dichloroethane	ug/L	ND	1.0	05/04/16 09:30	
1,1-Dichloroethene	ug/L	ND	1.0	05/04/16 09:30	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/04/16 09:30	
1,2-Dichloroethane	ug/L	ND	1.0	05/04/16 09:30	
1,2-Dichloropropane	ug/L	ND	1.0	05/04/16 09:30	
2-Butanone (MEK)	ug/L	ND	2.0	05/04/16 09:30	
2-Hexanone	ug/L	ND	2.0	05/04/16 09:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2.0	05/04/16 09:30	
Acetone	ug/L	ND	4.0	05/04/16 09:30	
Acrolein	ug/L	ND	8.0	05/04/16 09:30	
Acrylonitrile	ug/L	ND	4.0	05/04/16 09:30	
Benzene	ug/L	ND	1.0	05/04/16 09:30	
Bromodichloromethane	ug/L	ND	1.0	05/04/16 09:30	
Bromoform	ug/L	ND	1.0	05/04/16 09:30	
Bromomethane	ug/L	ND	1.0	05/04/16 09:30	
Carbon disulfide	ug/L	ND	1.0	05/04/16 09:30	
Carbon tetrachloride	ug/L	ND	1.0	05/04/16 09:30	
Chlorobenzene	ug/L	ND	1.0	05/04/16 09:30	
Chloroethane	ug/L	ND	1.0	05/04/16 09:30	
Chloroform	ug/L	ND	1.0	05/04/16 09:30	
Chloromethane	ug/L	ND	1.0	05/04/16 09:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/04/16 09:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/04/16 09:30	
Dibromochloromethane	ug/L	ND	1.0	05/04/16 09:30	
Dibromomethane	ug/L	ND	1.0	05/04/16 09:30	
Enflurane	ug/L	ND	1.0	05/04/16 09:30	
Ethylbenzene	ug/L	ND	1.0	05/04/16 09:30	
Haloether 229	ug/L	ND	1.0	05/04/16 09:30	
Haloether 406	ug/L	ND	1.0	05/04/16 09:30	
Haloether 421	ug/L	ND	1.0	05/04/16 09:30	
Haloether 427	ug/L	ND	1.0	05/04/16 09:30	
Haloether 428	ug/L	ND	1.0	05/04/16 09:30	
Haloether 508	ug/L	ND	1.0	05/04/16 09:30	
Haloether 528	ug/L	ND	1.0	05/04/16 09:30	
Halomar	ug/L	ND	1.0	05/04/16 09:30	
Isoflurane	ug/L	ND	1.0	05/04/16 09:30	
m&p-Xylene	ug/L	ND	2.0	05/04/16 09:30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

METHOD BLANK: 222075 Matrix: Water
Associated Lab Samples: 2036032001, 2036032002, 2036032003, 2036032004

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Methoxyflurane	ug/L	ND ND	1.0	05/04/16 09:30	
Methylene Chloride	ug/L	ND	5.0	05/04/16 09:30	
o-Xylene	ug/L	ND	1.0	05/04/16 09:30	
Styrene	ug/L	ND	1.0	05/04/16 09:30	
Tetrachloroethene	ug/L	ND	1.0	05/04/16 09:30	
Toluene	ug/L	ND	1.0	05/04/16 09:30	
Total Haloether	ug/L	ND	1.0	05/04/16 09:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/04/16 09:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/04/16 09:30	
Trichloroethene	ug/L	ND	1.0	05/04/16 09:30	
Trichlorofluoromethane	ug/L	ND	1.0	05/04/16 09:30	
Vinyl chloride	ug/L	ND	1.0	05/04/16 09:30	
4-Bromofluorobenzene (S)	%.	103	68-124	05/04/16 09:30	
Dibromofluoromethane (S)	%.	102	72-126	05/04/16 09:30	
Toluene-d8 (S)	%.	96	79-119	05/04/16 09:30	

LABORATORY CONTROL SAMPLE:	222076					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.1	92	62-131	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	15-179	
1,1,2-Trichloroethane	ug/L	50	45.6	91	58-144	
1,1,2-Trichlorotrifluoroethane	ug/L	50	42.1	84	38-121	
1,1-Dichloroethane	ug/L	50	43.7	87	63-129	
1,1-Dichloroethene	ug/L	50	43.1	86	51-139	
1,2,3-Trichloropropane	ug/L	50	49.6	99	13-187	
1,2-Dichloroethane	ug/L	50	43.2	86	57-148	
1,2-Dichloropropane	ug/L	50	43.1	86	66-128	
2-Butanone (MEK)	ug/L	50	44.8	90	32-183	
2-Hexanone	ug/L	50	47.5	95	36-170	
4-Methyl-2-pentanone (MIBK)	ug/L	50	44.7	89	26-171	
Acetone	ug/L	50	45.1	90	22-165	
Acrolein	ug/L	100	84.5	85	10-131	
Acrylonitrile	ug/L	50	42.3	85	18-149	
Benzene	ug/L	50	45.2	90	62-131	
Bromodichloromethane	ug/L	50	40.9	82	69-132	
Bromoform	ug/L	50	43.1	86	35-166	
Bromomethane	ug/L	50	50.9	102	34-158	
Carbon disulfide	ug/L	50	42.5	85	31-128	
Carbon tetrachloride	ug/L	50	45.6	91	54-144	
Chlorobenzene	ug/L	50	49.7	99	70-127	
Chloroethane	ug/L	50	37.7	75	17-195	
Chloroform	ug/L	50	40.6	81	73-134	
Chloromethane	ug/L	50	46.2	92	17-153	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

ABORATORY CONTROL SAMPLE:	222076					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
s-1,2-Dichloroethene	ug/L	50	44.0	88	68-129	
s-1,3-Dichloropropene	ug/L	50	42.9	86	72-138	
ibromochloromethane	ug/L	50	44.5	89	49-146	
bromomethane	ug/L	50	43.6	87	56-145	
nflurane	ug/L	50	48.9	98	56-135	
hylbenzene	ug/L	50	49.9	100	66-126	
aloether 229	ug/L	50	49.4	99	62-123	
aloether 406	ug/L	50	40.7	81	62-134	
aloether 421	ug/L	50	43.4	87	70-128	
aloether 427	ug/L	50	46.8	94	69-153	
aloether 428	ug/L	50	47.1	94	70-134	
aloether 508	ug/L	50	48.8	98	52-139	
aloether 528	ug/L	50	43.5	87	48-157	
alomar	ug/L	50	45.2	90	62-128	
oflurane	ug/L	50	47.8	96	61-132	
&p-Xylene	ug/L	100	100	100	65-129	
ethoxyflurane	ug/L	50	45.2	90	72-124	
ethylene Chloride	ug/L	50	44.3	89	46-168	
(ylene	ug/L	50	49.2	98	65-124	
rene	ug/L	50	51.0	102	72-133	
rachloroethene	ug/L	50	50.6	101	46-157	
uene	ug/L	50	46.0	92	69-126	
tal Haloether	ug/L		507			
ans-1,2-Dichloroethene	ug/L	50	44.4	89	60-129	
ans-1,3-Dichloropropene	ug/L	50	44.3	89	59-149	
ichloroethene	ug/L	50	46.8	94	67-132	
ichlorofluoromethane	ug/L	50	54.7	109	39-171	
nyl chloride	ug/L	50	42.9	86	27-149	
Bromofluorobenzene (S)	%.			104	68-124	
bromofluoromethane (S)	%.			100	72-126	
oluene-d8 (S)	%.			96	79-119	

MATRIX SPIKE & MATRIX SPIR	KE DUPLIC	ATE: 22207	7		222078							
			MS	MSD								
		2036032003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	57.9	49.0	116	98	54-137	17	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	53.3	45.5	107	91	15-187	16	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	52.7	46.9	105	94	59-148	12	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	50.4	44.5	101	89	40-117	12	20	
1,1-Dichloroethane	ug/L	ND	50	50	52.3	43.3	105	87	59-133	19	20	
1,1-Dichloroethene	ug/L	ND	50	50	50.2	36.7	100	73	44-146	31	20	R1
1,2,3-Trichloropropane	ug/L	ND	50	50	53.5	47.9	107	96	14-199	11	20	
1,2-Dichloroethane	ug/L	ND	50	50	49.3	44.3	99	89	56-154	11	20	
1,2-Dichloropropane	ug/L	ND	50	50	51.1	44.1	102	88	62-135	15	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

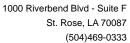
Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 22207	7		222078							
			MS	MSD								
		2036032003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
-Butanone (MEK)	ug/L	ND	50	50	51.7	44.2	103	88	20-205	16	20	
-Hexanone	ug/L	ND	50	50	55.0	47.3	110	95	25-189	15	20	
-Methyl-2-pentanone MIBK)	ug/L	ND	50	50	53.2	47.4	106	95	23-184	11	20	
cetone	ug/L	12.4	50	50	80.5	68.0	136	111	11-217	17	20	
crolein	ug/L	ND	100	100	8.3	5.3J	8	5	10-142		20	M1
crylonitrile	ug/L	ND	50	50	47.5	41.9	95	84	20-164	12	20	
Benzene	ug/L	ND	50	50	53.9	47.3	108	95	52-141	13	20	
Bromodichloromethane	ug/L	ND	50	50	48.2	41.8	96	84	70-134	14	20	
Bromoform	ug/L	ND	50	50	51.8	47.9	103	95	37-171	8	20	
Bromomethane	ug/L	ND	50	50	59.1	50.5	118	101	34-155	16	20	
Carbon disulfide	ug/L	ND	50	50	57.4	43.9	115	88	28-130	27	20	R1
Carbon tetrachloride	ug/L	ND	50	50	55.6	47.0	111	94	48-146	17	20	
Chlorobenzene	ug/L	ND	50	50	61.4	55.3	123	111	67-129	10	20	
Chloroethane	ug/L	ND	50	50	46.1	40.3	92	81	12-192	13	20	
Chloroform	ug/L	ND	50	50	49.2	43.6	98	87	66-143	12	20	
Chloromethane	ug/L	ND	50	50	68.3	59.5	136	118	14-155	14	20	
is-1,2-Dichloroethene	ug/L	ND	50	50	54.1	47.4	108	95	56-141	13	20	
•	ug/L ug/L	ND	50	50	42.5	34.2	85	68	70-139	21		M1,F
is-1,3-Dichloropropene Dibromochloromethane		ND ND			53.9	50.5				6		IVI I , F
Dibromocnioromethane	ug/L		50	50			108	101	50-150		20	
	ug/L	ND	50	50	51.2	46.0	102	92	58-153	11	20	
nflurane	ug/L	ND	50	50	59.0	51.5	118	103	63-126	14	20	D.4
Ethylbenzene	ug/L	ND	50	50	42.6	32.8	85	66	57-135	26	20	K1
laloether 229	ug/L	ND	50	50	62.2	53.5	124	107	56-127	15	20	
laloether 406	ug/L	ND	50	50	46.2	48.1	92	96	68-128	4	20	
laloether 421	ug/L	ND	50	50	52.5	44.0	105	88	74-120	18	20	
laloether 427	ug/L	ND	50	50	58.0	48.8	116	98	78-120	17	20	
laloether 428	ug/L	ND	50	50	55.9	49.6	112	99	74-125	12	20	
laloether 508	ug/L	ND	50	50	58.2	49.1	116	98	28-156	17	20	
laloether 528	ug/L	ND	50	50	53.1	45.6	106	91	45-142	15	20	
lalomar	ug/L	ND	50	50	53.1	46.5	106	93	67-123	13	20	
soflurane	ug/L	ND	50	50	56.5	49.6	112	99	45-140	13	20	
n&p-Xylene	ug/L	ND	100	100	2.9	ND	3	1	56-136		20	M1
/lethoxyflurane	ug/L	ND	50	50	51.9	45.8	104	92	75-119	12	20	
Methylene Chloride	ug/L	ND	50	50	53.0	47.1	106	94	45-166	12	20	
-Xylene	ug/L	ND	50	50	5.6	2.3	11	5	57-133	83	20	M1, F
Styrene	ug/L	ND	50	50	ND	ND	0	0	58-144		20	
etrachloroethene	ug/L	ND	50	50	63.5	56.5	127	113	48-143	12	20	
oluene	ug/L	ND	50	50	35.5	26.1	71	52	59-136	30		M1,F
otal Haloether	ug/L	ND			607	532				13		,.
ans-1,2-Dichloroethene	ug/L	ND	50	50	55.6	46.5	111	93	57-132	18	20	
ans-1,3-Dichloropropene	ug/L	ND	50	50	43.9	36.3	88	73	59-154	19	20	
richloroethene	ug/L	ND	50	50	57.3	50.4	115	101	58-140	13	20	
richlorofluoromethane	-	ND ND	50	50	67.8	55.8	136	112	24-175	19	20	
	ug/L											N/4 F
inyl chloride	ug/L	ND	50	50	12.5	6.1	25	12	21-150	69	20	M1, F

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 22207	7		222078							
		2036032003	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	% Rec	RPD		Qual
Dibromofluoromethane (S)	%.						101	101	72-126			
Toluene-d8 (S)	%.						94	95	79-119			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

Date: 05/16/2016 04:46 PM

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fibers Public Supply Wells

Pace Project No.: 2036032

Date: 05/16/2016 04:46 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2036032001	TB-20160502	EPA 5030B/8260	MSV/4850		
2036032002	INF-20160502	EPA 5030B/8260	MSV/4850		
2036032003	EFF-20160502	EPA 5030B/8260	MSV/4850		
2036032004	EFFDUP-20160502	EPA 5030B/8260	MSV/4850		

Pace Analytical

Caoler ð Custody (N/A) Regulatory Agenc Received on State / Location Residual Chlorine (Y/N) TEMP in C TIME EPA 300.0 Chloride Requested Analysis Filtered (Y/N DATE RSK 175 Methane EPA 6010 Total Metals (Fe, Mn) EPA 6010 Dissolved Metals (Fe, Mn STM D516,90,02 Sulfate justin.stock@pacelabs.com SM 5310B TOC ACCEPTED BY / AFFILIATION SM 2320B Alkalinity EPA 8260B Haloethers N/A Analyses Test Accounts Payable Methanol Preservatives ^eO^zS^zeN Company Name: ARCADIS HOBM Pace Project Manager: Pace Profile #: нсі Invoice Information HMO³ OS2H 840 ace Quote; TIME Address: pevieseiduU # OF CONTAINERS SAMPLER NAME AND SIGNATURE PRINT Name of SemPLER: SIGNATURE of SAMPLER: SAMPLE TEMP AT COLLECTION DATE Mari Driedk are 5 05 pt 1 1 1 1 5 Jedle 0715 CO001911.0003 1602A Fibers Públic Supply Wells DATE COLLECTED RELINQUISHED BY / AFFILIATION cassandra.mccloud@ardadis-us.com TIME START David Howard O 13 Ϋ́ Ϋ́ Purchase Order #: MATRIX CODE roject Name: Report To: Section B CODE WY WY OL OL OT OT S Copy MATRIX
Drinking Water
Water
Waste Water
Product
Product
Product
Oil
Wipe
Air
Other
Tissue david.howard@arcadis-us.com Suite 1000 ADDITIONAL COMMENTS One Character per box. (A-Z, 0-91, -) Sample Ids must be unique SAMPLE ID 410 North 44th St 602.797.4518 Requested Due Da Email To: Company 9 Ŧ ITEM # 9 8 Φ 12

The Chain-of-Custody is a LEGAI CHAIN-OF-CUSTODY

JO#:2036032

SAMPLE CONDITIONS Comments

Page 20 of 21

(N/X) Samples

(N/A)

Pace Analytical"

Sample Condition Upon

WO#: 2036032

PM: JLS

Due Date: 05/17/16

Pace Analytical	1000 Riverbend, Blvd., Sui St. Rose, LA 70087	te F		Pr	CLIENT	T: 20-CHEV-	ARC		
Courier:	☐ Hired Courier	Ted X	□ UI	PS 🗆	DHL	□ USPS □	☐ Customer	☐ Other	_
Custody Seal on Cooler/Box P	resent: [see	coci				Custody Se	eals intact: Y	es □No	
Therometer ☐ Therm Fi ☐ Therm Fi ☐ Therm Fi	sher IR 6	Type of Ice	: (v	Vet Blue	None	Sample	s on ice: [see C	OC]	
Cooler Temperature: [see C	COC] Ten	np should be a	above f	reezing to 6	°C		s of person exan	nining # No	
Temp must be measured from Ter	mperature blank when	present		Comments	s:				
Temperature Blank Present"?		□Yes □No	Ď[N/A	1					
Chain of Custody Present:		∆x es □No	□N/A	2					
Chain of Custody Complete:		Yes □No	□N/A	3					
Chain of Custody Relinquished	l:	Yes □No	□n/a	4					
Sampler Name & Signature on		∐Yes □No	□n/a	5					
Samples Arrived within Hold Ti	me:	Ì Yes □No	□n/a	6		,			_
Sufficient Volume:		Yes 🗆 No	□n/a	7			,	-	
Correct Containers Used:		Yes No	□n/a	8			٠.		
Filtered vol. Rec. for Diss. tests	.	□Yes □No	∑ N/A	9				-	
Sample Labels match COC:		NYes □No	□n/a	10					
All containers received within no precautionary and/or expiration		Yes □No	□n/a	11					
All containers needing chemica been checked (except VOA, co		□Yes □No	N/A	12					
All containers preservation che compliance with EPA recomme		□Yes □No	DIVIA	1f I 13 If a		reserative added ord lot no.: HNC		O4	
Headspace in VOA Vials (>6m	ım):	□Yes No					_		1
Trip Blank Present:		Yes No		15		TO MAKE A COLOR OF THE STATE OF	UTINE WAY, THE		7
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Client Notification/ Resolution	n:								_
Person Contacted:	8-11	· · · · · · · · · · · · · · · · · · ·				Date/Tin	ne:		
Comments/ Resolution:									_
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Attachment 3 Sampling and Monitoring Field Form



Groundwater Extraction and Treatment System (GWETS) Sampling and Monitoring Field Form Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

Collection Date	Sample ID	Collection Time	Sampler's Initials
05/02/16	TR-2016 U502	LAR	EIR
05/02/16	INF-20160502	1757	FUR
05/02/16	FFF 2016 0502	0815	EUR
05/02/16	= FF DUP-Z0160502	0812	EUR
05/02/16	EFFNI- 7016AT OR	0812	EUB
05/02/16	FFFMD-20160502	0815	EVB

GWETS Operational Data at Sample Collection

Extraction Wells

RW-2	115,9	gpm
RW-4	129, 9	gpm
RW-5	46.9	gpm

Compound Treatment System

Influent Flow Rate (FIT-101)	318,6	gpm
Effluent Flow Rate (FIT-301)	311,7	gpm
Blower (FIT-201A)	1971	<i>\$</i> cfm
Influent Flow Pressure (PIT-101)	3.1	psi
Effluent Flow Pressure (PIT-301)	19,5	psi
pH (pHIT-201A)	8.0	

Notes:

gpm = gallons per minute cfm = cubic feet per minute psi = pounds per square inch